# Safety Data Sheet

*According to Regulation (EC) No 1907/2006*

## Titan Chlor-Tabs 500

**Revision:** 2024-08-05 **Version:** 03.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name:** Titan Chlor-Tabs 500

UFI: QM60-R0QM-6000-MPAR

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| **Product use:** | Surface disinfectant.<br>for general surface disinfection<br>For professional use only. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_19_1

### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@solenis.com

### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

EUH031
Eye irritation, Category 2 (H319)
Acute aquatic toxicity, Category 1 (H400)
Chronic aquatic toxicity, Category 1 (H410)

### 2.2 Label elements

**Signal word:** Warning.

Contains troclosene sodium (Troclosene Sodium)

**Hazard statements:**
H319 - Causes serious eye irritation.
H410 - Very toxic to aquatic life with long lasting effects.
EUH031 - Contact with acids liberates toxic gas.

### 2.3 Other hazards

No other hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| troclosene sodium | 220-767-7 | 2893-78-9 | [6] | Oxidising solids, Category 2 (H272)<br>EUH031<br>Acute toxicity - Oral, Category 4 (H302)<br>Specific target organ toxicity - Single exposure, Category 3 (H335)<br>Eye irritation, Category 2 (H319)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 1 M=1 (H410) | | 30-50 |
| adipic acid | 204-673-3 | 124-04-9 | 01-2119457561-38 | Eye irritation, Category 2 (H319) | | 30-50 |
| sodium carbonate | 207-838-8 | 497-19-8 | 01-2119485498-19 | Eye irritation, Category 2 (H319) | | 3-10 |

**Specific concentration limits**
troclosene sodium:
• Specific target organ toxicity - Single exposure, Category 3 (H335) >= 10%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**Inhalation:** Get medical attention or advice if you feel unwell.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

**Eye contact:** Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed**

**Inhalation:** May cause bronchospasm in chlorine sensitive individuals.

**Skin contact:** No known effects or symptoms in normal use.

**Eye contact:** Causes severe irritation.

**Ingestion:** No known effects or symptoms in normal use.

**4.3 Indication of any immediate medical attention and special treatment needed**
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**
No special hazards known.

**5.3 Advice for firefighters**
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Wear eye/face protection.

**6.2 Environmental precautions**
Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**
Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
**Measures to prevent fire and explosions:**
No special precautions required.
**Measures required to protect the environment:**
For environmental exposure controls see subsection 8.2.
**Advices on general occupational hygiene:**
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Comah - Lower Tier requirements (tonnes): 100
Comah - Upper Tier requirements (tonnes): 200

**7.3 Specific end use(s)**
No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**
**Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

**Additional exposure limits under the conditions of use, if available:**

**DNEL/DMEL and PNEC values**
**Human exposure**
DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| troclosene sodium | - | - | - | 1.15 |
| adipic acid | - | - | - | 7.5 |
| sodium carbonate | - | - | - | - |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| troclosene sodium | No data available | - | No data available | 2.3 |
| adipic acid | No data available | - | No data available | - |
| sodium carbonate | - | - | No data available | - |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| troclosene sodium | No data available | - | No data available | 1.15 |
| adipic acid | No data available | - | No data available | - |
| sodium carbonate | No data available | - | No data available | - |

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| troclosene sodium | - | - | - | 8.11 |
| adipic acid | - | - | - | - |
| sodium carbonate | - | - | 10 | - |

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| troclosene sodium | - | - | - | 1.99 |

| | | | | |
|---|---|---|---|---|
| adipic acid | - | - | - | - |
| sodium carbonate | 10 | - | - | - |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| troclosene sodium | 0.00017 | 1.52 | 0.00017 | 0.59 |
| adipic acid | 0.126 | 0.013 | 0.46 | 59.1 |
| sodium carbonate | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| troclosene sodium | 7.56 | - | 0.756 | - |
| adipic acid | 0.484 | 0.048 | 0.023 | - |
| sodium carbonate | - | - | - | - |

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*
*If available, please refer to the product information sheet for application and handling instructions.*
*Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

**Appropriate engineering controls:** No special requirements under normal use conditions.
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**REACH use scenarios considered for the undiluted product:**

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 480 | ERC8a |

**Personal protective equipment**
**Eye / face protection:** No special requirements under normal use conditions.
**Hand protection:** No special requirements under normal use conditions.
**Body protection:** No special requirements under normal use conditions.
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**Information in this section refers to the product, unless it is specifically stated that substance data is listed**

**Method / remark**

**Physical state:** Solid
**Appearance:** Tablets
**Colour:** White
**Odour:** Chlorine
**Odour threshold:** Not applicable
**Melting point/freezing point (°C):** Not determined — Not relevant to classification of this product
**Initial boiling point and boiling range (°C):** Not determined — Not applicable to solids or gases

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| troclosene sodium | No data available | | |
| adipic acid | No data available | | |
| sodium carbonate | 1600 | Method not given | 1013 |

**Method / remark**

**Flammability (solid, gas):** Not determined
**Flammability (liquid):** Not applicable.
**Flash point (°C):** > 100 °C — Weight of evidence
**Sustained combustion:** The product does not sustain combustion Not applicable. — Weight of evidence
*( UN Manual of Tests and Criteria, section 32, L.2 )*

**Lower and upper explosion limit/flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

| | Method / remark |
|---|---|
| **Autoignition temperature:** Not determined | |
| **Decomposition temperature:** Not applicable. | |
| **pH:** Not applicable | |
| **Dilution pH:** ≈ 5 (10%) | |
| **Kinematic viscosity:** Not determined | Not applicable to solids or gases |
| **Solubility in / Miscibility with water:** Soluble | |

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| troclosene sodium | No data available | | |
| adipic acid | No data available | | |
| sodium carbonate | 210-215 | Method not given | 20 |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

| | Method / remark |
|---|---|
| **Vapour pressure:** Not determined | See substance data |

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|---|---|---|
| troclosene sodium | No data available | | |
| adipic acid | No data available | | |
| sodium carbonate | Negligible | | |

| | Method / remark |
|---|---|
| **Relative density:** ≈ 1.10 (20 °C) | OECD 109 (EU A.3) |
| **Relative vapour density:** No data available. | Not applicable to solids |
| **Particle characteristics:** Not determined. | Not relevant to classification of this product. |

**9.2 Other information**
**9.2.1 Information with regard to physical hazard classes**
**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.
**Oxidising properties:** Not oxidising.
**Corrosion to metals:** Not determined — Not applicable to solids or gases

**9.2.2 Other safety characteristics**
No other relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**
No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**
None known under normal storage and use conditions.

**10.5 Incompatible materials**
Reacts with acids. Reacts with acids releasing toxic chlorine gas.

**10.6 Hazardous decomposition products**
Chlorine.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data: .

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

**Acute toxicity**
Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Oral (mg/kg) |
|---|---|---|---|---|---|---|
| troclosene sodium | $LD_{50}$ | 1436 | Mouse | Method not given | | 1436 |
| adipic acid | $LD_{50}$ | 5560 | Rat | | | Not established |
| sodium carbonate | $LD_{50}$ | 2800 | Rat | OECD 401 (EU B.1) | | 2800 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| troclosene sodium | $LD_{50}$ | > 5000 | Rat | | | Not established |
| adipic acid | $LD_{50}$ | > 7940 | Rabbit | Method not given | 24 | Not established |
| sodium carbonate | $LD_{50}$ | > 2000 | Rabbit | Method not given | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| troclosene sodium | $LC_{50}$ | > 0.27-1.17 (dust) | Rat | OECD 403 (EU B.2) | 4 |
| adipic acid | $LC_{50}$ | 7700 | Rat | Method not given | 4 |
| sodium carbonate | $LC_{50}$ | > 2.3 (dust) | | Weight of evidence | 2 |

Acute inhalative toxicity, continued

| Ingredient(s) | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|---|---|---|---|---|
| troclosene sodium | Not established | Not established | Not established | Not established |
| adipic acid | Not established | Not established | Not established | Not established |
| sodium carbonate | Not established | Not established | Not established | Not established |

**Irritation and corrosivity**
Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| troclosene sodium | Not irritant | | | |
| adipic acid | Mild irritant | Rabbit | Method not given | 24 hour(s) |
| sodium carbonate | Not irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| troclosene sodium | Irritant | | | |
| adipic acid | Irritant | Rabbit | Method not given | 72 hour(s) |
| sodium carbonate | Irritant | Rabbit | OECD 405 (EU B.5) | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| troclosene sodium | Irritating to respiratory tract | | | |
| adipic acid | No data available | | | |
| sodium carbonate | No data available | | | |

**Sensitisation**
Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| troclosene sodium | Not sensitising | Guinea pig | OECD 429 (EU B.42) | |
| adipic acid | Not sensitising | Guinea pig | | |
| sodium carbonate | Not sensitising | | Method not given | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| troclosene sodium | Not sensitising | | | |
| adipic acid | No data available | | | |
| sodium carbonate | No data available | | | |

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| troclosene sodium | No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) | No data available | |
| adipic acid | No data available | | No data available | |
| sodium carbonate | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| troclosene sodium | No data available |
| adipic acid | No data available |
| sodium carbonate | No evidence for carcinogenicity, weight-of-evidence |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| troclosene sodium | | | No data available | | | | |
| adipic acid | | | No data available | | | | |
| sodium carbonate | | | No data available | | | | |

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| troclosene sodium | NOAEL | 115 | Rat | Method not given | 28 | |
| adipic acid | | No data available | | | | |
| sodium carbonate | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| troclosene sodium | | No data available | | | | |
| adipic acid | | No data available | | | | |
| sodium carbonate | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| troclosene sodium | | No data available | | | | |
| adipic acid | | No data available | | | | |
| sodium carbonate | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|---|---|---|---|---|---|---|---|
| troclosene sodium | | | No data available | | | | | |
| adipic acid | | | No data available | | | | | |
| sodium carbonate | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| troclosene sodium | No data available |

| | |
|---|---|
| adipic acid | No data available |
| sodium carbonate | Not applicable |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| troclosene sodium | No data available |
| adipic acid | No data available |
| sodium carbonate | Not applicable |

**Aspiration hazard**
Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards**
**11.2.1 Endocrine disrupting properties**
Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**
No other relevant information available.

## SECTION 12: Ecological information

**12.1 Toxicity**

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**
Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| troclosene sodium | $LC_{50}$ | 0.37-0.47 | *Fish* | | |
| adipic acid | $LC_{50}$ | > 1000 | *Brachydanio rerio* | Method not given | 96 |
| sodium carbonate | $LC_{50}$ | 300 | *Lepomis macrochirus* | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| troclosene sodium | $EC_{50}$ | 0.21 | *Daphnia magna Straus* | Method not given | 48 |
| adipic acid | $EC_{50}$ | 46 (nominal) | *Daphnia magna Straus* | OECD 202, static | 48 |
| sodium carbonate | $EC_{50}$ | 200-227 | *Ceriodaphnia dubia* | Method not given | 96 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| troclosene sodium | $LC_{50}$ | < 0.5 | *Chlorella pyrenoidosa* | Method not given | 3 |
| adipic acid | $EC_{50}$ | 64.5 (nominal) | *Pseudokirchneriella subcapitata* | OECD 201, static | 72 |
| sodium carbonate | $EC_{50}$ | > 800 | *Selenastrum capricornutum* | | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| troclosene sodium | | No data available | | | |
| adipic acid | | No data available | | | |
| sodium carbonate | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| troclosene sodium | | 51 | *Bacteria* | OECD 209 | 3 hour(s) |
| adipic acid | | No data available | | | |
| sodium carbonate | | No data available | | | |

### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| troclosene sodium | | No data available | | | | |
| adipic acid | | No data available | | | | |
| sodium carbonate | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| troclosene sodium | | No data available | | | | |
| adipic acid | | No data available | | | | |
| sodium carbonate | | No data available | | | | |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| troclosene sodium | | No data available | | | | |
| adipic acid | | No data available | | | | |
| sodium carbonate | | No data available | | | | |

### Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |

### 12.2 Persistence and degradability

**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium carbonate | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium carbonate | No data available | | Rapidly hydrolysible | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| troclosene sodium | | | | OECD 301D | Not readily biodegradable. |
| adipic acid | Activated sludge, aerobe | Oxygen depletion | 83% in 30 day(s) | OECD 301D | Readily biodegradable |
| sodium carbonate | | | | | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| sodium carbonate | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| sodium carbonate | | | | | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| troclosene sodium | No data available | | | |
| adipic acid | No data available | | | |
| sodium carbonate | No data available | | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| troclosene sodium | No data available | | | | |
| adipic acid | No data available | | | | |
| sodium carbonate | No data available | | | No bioaccumulation expected | |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|---|---|---|---|---|
| troclosene sodium | No data available | | | | |
| adipic acid | No data available | | | | |
| sodium carbonate | No data available | | | | Potential for mobility in soil, soluble in water |

### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

### 12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

### 12.7 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | |
|---|---|
| **Waste from residues / unused products:** | The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation. |
| **European Waste Catalogue:** | 20 01 29* - detergents containing dangerous substances. |
| **Empty packaging Recommendation:** | Dispose of observing national or local regulations. |

## SECTION 14: Transport information


**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number or ID number:** 3077

**14.2 UN proper shipping name:**

Environmentally hazardous substance, solid, n.o.s. ( sodium dichloroisocyanurate anhydrous )

**14.3 Transport hazard class(es):**

**Transport hazard class (and subsidiary risks):** 9

**14.4 Packing group:** III

**14.5 Environmental hazards:**

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

**14.6 Special precautions for user:** None known.

**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** M7

**Tunnel restriction code:** (E)

**Hazard identification number:** 90

**IMO/IMDG**

**EmS:** F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code
Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Biocidal Products Regulations 2001 (SI 2001/880)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Comah - classification:** E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** 665174 **Version:** 03.0 **Revision:** 2024-08-05

**Reason for revision:**
This data sheet contains changes from the previous version in section(s):, 1, 2, 4, 6, 7, 8, 9, 11, 12, 15, 16, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

**Classification procedure**
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Abbreviations and acronyms:**
- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H272 - May intensify fire; oxidiser.
- H302 - Harmful if swallowed.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- EUH031 - Contact with acids liberates toxic gas.

**End of Safety Data Sheet**